

ASTR 288C

Homework 3

Due: Monday, 28 September 2009

1. How many articles has the Nobel Laureate John C. Mather published over his entire career? (Use the ADS web site)

- Use http://adsabs.harvard.edu/default_search/ and search for author "Mather, J C".

336 articles as of 17 Sep 2009

2. How many refereed publications has John Mather published as a first author?

- Use http://adsabs.harvard.edu/default_search/ and search for author "^Mather, J C".
- Select "All refereed articles"

18 articles as of 17 Sep 2009

3. a) How many refereed publications has Neil Gehrels published (been the first author) about the Gamma-Ray Burst "GRB060614"?

- Use http://adsabs.harvard.edu/default_search/ and search for author "^Gehrels, N" and object name "GRB 060614".
- Select "Require author for selection" and "Require object for selection"
- Select "All refereed articles"

2 articles as of 17 Sep 2009

- b) List the journals of the articles.

ApJ
Nature

c) Give the full reference of the articles in the format:

Author1, Initials, Author2, Initials, Author3, Initials, et al., Year, Journal Number, Page

Gehrels, N., Barthelmy, S. D., Burrows, D. N., et al., 2008, ApJ, 689, 1161
Gehrels, N., Norris, J. P., Barthelmy, S. D., et al., 2006, Nature, 444, 1044

4. In his preprint article about “Wide Field Imager in Space for Dark Energy and Planets”, posted on Feb 16, 2009, the author Andrew Gould argues that a wide-field imager in space could make remarkable progress in two very different frontiers of astronomy. What are these two different frontiers? (use astro-ph)

Dark Energy
Extra-Solar Planets

5. Imagine you have completed a short research project and your supervisors Dr. Stephen Holland and Dr. Stefan Immler ask you to write up your results for submission to *The Astrophysical Journal*. Download the draft text of the paper from http://heawww.gsfc.nasa.gov/~sholland/astr288c/autumn_2009/lectures/lecture3/paper.txt, typeset the paper in the *ApJ* style, compile it using LaTeX, and hand in the printout of the postscript output file. Include yourself as the 1st author, Stephan Holland as the 2nd author, and Stefan Immler as the 3rd author. Make sure to include the affiliations, create the title, abstract, and sections of the papers, and include the postscript figure, with figure caption.